## (19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 7 July 2005 (07.07.2005)

PCT

## (10) International Publication Number WO 2005/061702 A3

(51) International Patent Classification7: C12N 15/82, A01H 5/00

(21) International Application Number:

PCT/EP2004/053683

(22) International Filing Date:

22 December 2004 (22.12.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/532,287 22 December 2003 (22.12.2003)

(71) Applicant (for all designated States except US): CROPDESIGN N.V. [BE/BE]; Technologiepark 3, B-9052 Zwijnaarde (BE).

- (72) Inventors; and
- Inventors/Applicants (for US only): FRANKARD, Valerie [BE/BE]; Rue de Percke 78, B-1180 Bruxelles (BE). MIRONOV, Vladimir [BE/BE]; Zebrastraat 11, B-9000 Gent (BE).
- (74) Common Representative: CROPDESIGN N.V.; Technologiepark 3, B-9052 Zwijnaarde (BE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## **Published:**

- with international search report
- with sequence listing part of description published separately in electronic form and available upon request from the International Bureau
- (88) Date of publication of the international search report: 17 November 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



(54) Title: PLANTS HAVING INCREASED YIELD AND METHOD FOR MAKING THE SAME

(57) Abstract: The invention concerns a method for increasing plant yield by introducing into a plant a cyclin A nucleic acid, preferably encoding a cyclin A protein, which cyclin A nucleic acid is operably linked to a seed-preferred promoter. By using this method, plant yield may be increased in optimal and sub-optimal growing conditions. The method results in plants having increased yield relative to corresponding wild type plants and relative to transgenic plants constitutively expressing cyclin A.